## ABSTRACT

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Peptide motifs which define specificity of tumor-derived endothelial cells. These peptides possess a charge motif of positive-positive-hydrophobic which is important in determining the specificity of binding to The specific molecular tumor-derived endothelium. peptide motifs will facilitate diverse therapeutic and anti-angiogenic including: applications diagnostic therapies to be used in alone or in conjunction with standard therapies; imaging tools for both detection of very small metastasis that are undetectable by current techniques; for monitoring tumor response; for targeting and directing chemotherapy drugs to the tumor; treatment of chronic inflammatory diseases rheumatoid arthritis and psoriasis, for treating some forms of blindness; as well as other diagnostic and therapeutic applications.